

DOCUMENT-IDENTIFIER: US 4406735 A

TITLE: Process for alkaline oxygen gas bleaching of cellulose pulp

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ABPL:

A process is provided for the bleaching delignification of cellulose pulp with oxygen gas in the presence of alkali, wherein the pulp is first activated with nitrogen dioxide and then washed, preferably with water. The invention is characterized in that the acid solution obtained is used to pretreat the digested pulp subsequent to washing the pulp with waste liquor obtained from the oxygen gas bleaching delignification stage.

BSPR:

The process of the invention is applicable to chemical cellulose pulps of all types, and in particular to alkaline digested chemical pulps. It is also possible to apply the invention to sulfite pulp. Examples of alkaline digested pulps are sulfate pulp, polysulfide pulp and soda pulp. The term "soda pulp" as used herein includes pulps which are digested with sodium hydroxide as the digestion chemical in the presence of various additives. Examples of such additives are redox catalysts, such as anthraquinone.

BSPR:

If delignification is to be carried out to a lesser extent, for example to a Kappa number of from about 6 to about 10, the oxygen gas bleaching delignification stage according to the method of the invention can, in the case of many unbleached pulps, be effected with only oxygen and alkali, for example, sodium hydroxide, sodium carbonate, sodium hydrogen carbonate, and/or oxidized

white liquor.

CCOR:
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CCXR:
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CCXR:
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